

**Dr. Duke's Phytochemical and Ethnobotanical Databases**

**List of Plants for Antielastase**

Plants with Activity Synergy	Chemical Count	Total PPM
Abelmoschus moschatus	1	
Abelmoschus esculentus	1	
Abrus precatorius	1	
Abutilon theophrasti	1	
Acacia senegal	1	
Acacia nilotica	2	
Acacia melanoxylon	1	
Acacia catechu	1	
Achillea millefolium	2	
Acinos suaveolens	2	
Aconitum napellus	1	
Actaea dahurica	1	
Actaea cimicifuga	1	
Actinidia chinensis	1	
Adonis vernalis	1	
Aesculus hippocastanum	3	
Agathosma betulina	1	
Ageratum conyzoides	1	
Agrimonia eupatoria	4	
Ailanthus altissima	2	
Albizia lebeck	2	
Allium schoenoprasum	2	18.0
Allium sativum var. sativum	2	480.0
Allium cepa	4	96200.0
Allium ampeloprasum	1	
Alnus glutinosa	1	
Alpinia officinarum	1	

Plants with Activity Synergy	Chemical Count	Total PPM
<i>Althaea officinalis</i>	3	
<i>Ammi visnaga</i>	2	
<i>Ammi majus</i>	1	
<i>Ananas comosus</i>	1	
<i>Anastatica hierochuntica</i>	1	
<i>Anemone pulsatilla</i>	1	
<i>Anethum graveolens</i>	4	
<i>Angelica archangelica</i>	1	
<i>Annona muricata</i>	1	
<i>Anogeissus latifolia</i>	1	
<i>Apium graveolens</i>	3	
<i>Arachis hypogaea</i>	3	44.0
<i>Araucaria bidwillii</i>	1	
<i>Arctium lappa</i>	1	10000.0
<i>Arctostaphylos uva-ursi</i>	4	
<i>Ardisia japonica</i>	1	
<i>Armoracia rusticana</i>	2	
<i>Arnica montana</i>	2	
<i>Artemisia dracuncululus</i>	3	
<i>Artemisia capillaris</i>	1	
<i>Artemisia annua</i>	2	
<i>Artemisia absinthium</i>	1	
<i>Artemisia abrotanum</i>	1	
<i>Artocarpus altilis</i>	1	
<i>Asimina triloba</i>	2	
<i>Aspalathus linearis</i>	3	
<i>Asparagus officinalis</i>	1	

Plants with Activity Synergy	Chemical Count	Total PPM
Astragalus membranaceus	2	
Avena sativa	2	620.0
Azadirachta indica	2	2000.0
Ballota nigra	1	
Barosma betulina	1	
Basella alba	1	
Berberis vulgaris	4	
Beta vulgaris	2	
Bidens pilosa	1	
Borago officinalis	1	
Brassica pekinensis	1	44.0
Brassica oleracea var. sabellica l.	1	100.0
Brassica oleracea var. italica	2	
Brassica oleracea var. gemmifera	2	186.0
Brassica oleracea var. capitata l.	2	508.0
Brassica oleracea var. botrytis l.	2	44.0
Brassica oleracea	1	40.0
Brassica nigra	2	
Caesalpinia pulcherrima	1	
Calendula officinalis	2	
Camellia sinensis	4	20000.0
Camptotheca acuminata	1	
Capparis spinosa	1	
Capsicum frutescens	2	254.0
Capsicum annuum	1	44.0
Carica papaya	1	
Carum carvi	4	

Plants with Activity Synergy	Chemical Count	Total PPM
Castanea sativa	2	
Catalpa bignonioides	1	
Catharanthus roseus	1	
Cedrus deodora	1	
Ceiba pentandra	2	
Centaurea cyanus	2	
Centaurea calcitrapa	1	
Centaurium erythraea	1	
Centella asiatica	2	
Ceratonia siliqua	1	
Chamaemelum nobile	1	
Chimaphila umbellata	1	
Cichorium intybus	3	3068.0
Cichorium endivia	2	
Cimicifuga dahurica	1	
Cinchona spp	1	
Cinchona pubescens	2	
Cinnamomum verum	1	
Cinnamomum camphora	2	
Cinnamomum aromaticum	1	
Citrullus lanatus	1	
Citrullus colocynthis	1	
Citrus sinensis	2	200.0
Citrus paradisi	2	204.0
Citrus limon	2	140.0
Clematis vitalba	1	
Cnicus benedictus	1	

Plants with Activity Synergy	Chemical Count	Total PPM
<i>Coccinia grandis</i>	1	
<i>Coffea arabica</i>	1	
<i>Cola acuminata</i>	1	
<i>Coleus barbatus</i>	1	
<i>Commiphora wightii</i>	2	
<i>Conium maculatum</i>	1	
<i>Consolida ajacis</i>	1	
<i>Convallaria majalis</i>	1	
<i>Conyza canadensis</i>	1	
<i>Coriandrum sativum</i>	3	
<i>Coriaria thymifolia</i>	1	
<i>Coriaria myrtifolia</i>	1	
<i>Cornus mas</i>	1	
<i>Cornus florida</i>	1	
<i>Corylus avellana</i>	2	
<i>Corylus americana</i>	1	
<i>Crataegus rhipidophylla</i>	3	
<i>Crataegus pentagyna</i>	1	
<i>Crataegus monogyna</i>	4	
<i>Crataegus laevigata</i>	3	
<i>Crataegus cuneata</i>	1	
<i>Crocus sativus</i>	1	
<i>Cucumis sativus</i>	1	
<i>Cucumis melo</i>	1	
<i>Cucurbita pepo</i>	2	
<i>Curcuma longa</i>	2	20.0
<i>Cyamopsis tetragonoloba</i>	2	

Plants with Activity Synergy	Chemical Count	Total PPM
Cymbopogon citratus	1	
Cynara cardunculus	2	
Cyphomandra betacea	1	
Cytisus scoparius	2	
Datura stramonium	1	
Daucus carota	2	
Dianthus caryophyllus	1	
Dictamnus albus	1	
Digitalis purpurea	1	
Diospyros virginiana	1	
Dipsacus fullonum	1	
Dodonaea viscosa	2	
Drimys winteri	1	
Echinacea spp	2	
Echinacea purpurea	1	
Echinacea angustifolia	1	
Elaeagnus angustifolia	2	
Elettaria cardamomum	1	
Eleutherococcus senticosus	1	
Equisetum hyemale	1	
Equisetum arvense	3	
Eriobotrya japonica	3	
Erythroxylum novogranatense	1	200.0
Erythroxylum coca	2	200.0
Eucalyptus rostratus	2	
Eucalyptus globulus	4	
Eucommia ulmoides	1	

Plants with Activity Synergy	Chemical Count	Total PPM
<i>Eupatorium perfoliatum</i>	2	
<i>Euphorbia pulcherrima</i>	1	
<i>Euphorbia lathyris</i>	1	
<i>Euphorbia hirta</i>	2	
<i>Euphrasia officinalis</i>	3	
<i>Fagopyrum esculentum</i>	3	
<i>Fallopia japonica</i>	1	
<i>Ficus carica</i>	4	
<i>Filipendula ulmaria</i>	2	
<i>Foeniculum vulgare</i>	3	
<i>Forsythia suspensa</i>	1	
<i>Fragaria</i> spp	2	136.0
<i>Galega officinalis</i>	1	
<i>Gaultheria procumbens</i>	1	
<i>Gaultheria fragrantissima</i>	1	
<i>Gentiana lutea</i>	1	
<i>Geranium thunbergii</i>	1	
<i>Ginkgo biloba</i>	2	
<i>Glechoma hederacea</i>	3	
<i>Glycine max</i>	3	16.0
<i>Glycyrrhiza uralensis</i>	2	
<i>Glycyrrhiza glabra</i>	2	
<i>Gossypium</i> sp	2	
<i>Guazuma tomentosa</i>	1	
<i>Haematoxylum campechianum</i>	1	
<i>Hamamelis virginiana</i>	2	
<i>Harpagophytum procumbens</i>	1	

Plants with Activity Synergy	Chemical Count	Total PPM
Hedera helix	1	
Helianthus annuus	2	8436.0
Helichrysum angustifolium	1	
Hemidesmus indicus	1	
Hibiscus sabdariffa	1	35000.0
Hibiscus rosa-sinensis	1	
Hippophae rhamnoides	1	
Holarrhena pubescens	1	
Hordeum vulgare	1	
Houttuynia cordata	3	
Humulus lupulus	3	
Hydrangea arborescens	1	
Hypericum perforatum	4	
Hyssopus officinalis	1	
Inonotus obliquus	1	
Inula helenium	1	
Ipomoea purga	1	160000.0
Ipomoea batatas	3	
Isatis tinctoria	1	
Juglans regia	3	
Juglans nigra	2	
Juniperus communis	3	
Kalanchoe spathulata	1	
Kalanchoe pinnata	2	
Kalanchoe gastonis-bonnieri	1	
Lactuca sativa	2	
Laurus nobilis	3	



Plants with Activity Synergy	Chemical Count	Total PPM
Ledum palustre	2	
Leonurus cardiaca	3	
Levisticum officinale	1	
Ligustrum lucidum	1	
Ligustrum japonicum	2	
Lippia dulcis	1	
Ludwigia perennis	1	
Ludwigia adscendens	1	
Lycium chinense	2	
Lycopersicon esculentum	2	24.0
Lycopodium selago	1	
Lycopodium clavatum	1	
Lycopus virginicus	1	
Lycopus europeus	1	
Lythrum salicaria	1	20000.0
Maclura pomifera	1	
Magnolia officinalis	2	
Magnolia kobus	2	
Magnolia denudata	1	
Malus domestica	5	5606.0
Malva sylvestris	1	
Mangifera indica	1	
Maranta arundinacea	1	
Marrubium vulgare	3	
Matricaria recutita	3	
Medicago sativa	4	
Melaleuca leucadendra	1	

Plants with Activity Synergy	Chemical Count	Total PPM
Melia azedarach	2	
Melilotus officinalis	2	
Melissa officinalis	2	
Mentha x rotundifolia	1	
Mentha x piperita	1	
Menyanthes trifoliata	3	
Moringa oleifera	2	
Morus alba	3	
Musa x paradisiaca	1	
Myrciaria dubia	1	
Myristica fragrans	2	
Nelumbo nucifera	2	
Nerium oleander	2	
Nicotiana tabacum	3	50.0
Ocimum basilicum	4	76200.0
Oenothera biennis	2	414000.0
Olea europaea	2	
Ononis spinosa	2	
Origanum vulgare	2	28240.0
Origanum majorana	1	
Paeonia suffruticosa	1	
Paeonia moutan	1	
Paeonia lactiflora	1	
Panax notoginseng	1	
Panax ginseng	1	
Papaver somniferum	2	
Passiflora incarnata	1	

Plants with Activity Synergy	Chemical Count	Total PPM
Pastinaca sativa	1	
Perilla frutescens	3	
Persea americana	2	
Petasites hybridus	2	
Petroselinum crispum	2	
Peucedanum ostruthium	1	
Phaseolus vulgaris	2	
Phoenix dactylifera	1	
Phyllanthus niruri	1	
Phyllanthus emblica	1	
Phyllanthus amarus	1	
Phytolacca americana	1	
Pimenta dioica	1	
Pimpinella anisum	3	
Pinus sylvestris	2	
Pinus mugo	1	
Piper nigrum	4	
Pistacia lentiscus	1	
Pisum sativum	1	
Plantago major	1	
Plumeria acutifolia	1	
Podophyllum pleianthum	2	
Podophyllum peltatum	1	100000.0
Podophyllum hexandrum	1	
Polygonum multiflorum	1	
Polygonum hydropiperoides	1	
Polygonum hydropiper	1	

Plants with Activity Synergy	Chemical Count	Total PPM
Polygonum aviculare	1	
Polypodium vulgare	1	
Populus tacamahacca	1	
Portulaca oleracea	1	
Prosopis juliflora	1	
Prunella vulgaris	3	
Prunus spinosa	3	
Prunus serotina	2	
Prunus persica	2	
Prunus laurocerasus	2	
Prunus dulcis	2	
Prunus domestica	2	
Prunus cerasus	3	
Prunus armeniaca	4	
Psidium guajava	2	
Psidium cattleianum	1	
Pteridium aquilinum	3	
Pueraria montana	1	
Punica granatum	4	
Pyrus communis	2	78856.0
Quercus velutina	1	
Quercus robur	1	
Quercus infectoria	1	
Quercus alba	1	
Raphanus sativus	1	364.0
Rheum rhabarbarum	2	32.0
Rheum officinale	1	

Plants with Activity Synergy	Chemical Count	Total PPM
Rhododendron ponticum	1	
Rhododendron dauricum	2	
Rhoeo spathacea	1	
Rhus toxicodendron	1	
Rhus coriaria	2	
Ribes nigrum	4	80000.0
Ricinus communis	3	
Rosa spp	2	
Rosa damascena	1	
Rosa canina	3	
Rosmarinus officinalis	1	
Rubus idaeus	3	
Rumex crispus	2	
Rumex acetosa	2	1000.0
Ruscus aculeatus	1	
Ruta graveolens	1	
Salix alba	2	
Salvia sp.	1	
Salvia officinalis	1	
Sambucus simpsonii	1	
Sambucus nigra	4	
Sambucus canadensis	1	
Sanguisorba officinalis	1	
Sanguisorba minor	2	
Santolina chamaecyparissus	1	
Sarracenia rubra	1	
Sarracenia purpurea	1	

Plants with Activity Synergy	Chemical Count	Total PPM
<i>Sarracenia psittacina</i>	1	
<i>Sarracenia oreophila</i>	1	
<i>Sarracenia minor</i>	1	
<i>Sarracenia leucophylla</i>	1	
<i>Sarracenia flava</i>	1	
<i>Sarracenia alata</i>	1	
<i>Satureja montana</i>	1	
<i>Sauvagesia erecta</i>	1	
<i>Schinus terebinthifolius</i>	1	
<i>Schinus molle</i>	1	
<i>Scopolia carniolica</i>	1	
<i>Selenicereus grandiflorus</i>	1	
<i>Senna occidentalis</i>	1	
<i>Senna obtusifolia</i>	1	
<i>Serenoa repens</i>	1	
<i>Sesamum indicum</i>	1	
<i>Silybum marianum</i>	1	
<i>Solanum tuberosum</i>	3	3360.0
<i>Solanum torvum</i>	1	
<i>Solanum melongena</i>	1	
<i>Solidago virgaurea</i>	3	
<i>Solidago gigantea</i>	4	
<i>Sophora japonica</i>	2	
<i>Sorbus aucubaria</i>	3	
<i>Spartium junceum</i>	2	
<i>Spinacia oleracea</i>	3	38.0
<i>Stachys officinalis</i>	1	20000.0

Plants with Activity Synergy	Chemical Count	Total PPM
<i>Stellaria media</i>	1	
<i>Symphytum officinale</i>	1	
<i>Syzygium aromaticum</i>	3	
<i>Tabebuia impetiginosa</i>	1	
<i>Tagetes patula</i>	2	
<i>Tagetes minuta</i>	1	
<i>Tanacetum vulgare</i>	2	
<i>Taraxacum officinale</i>	3	
<i>Taxus baccata</i>	1	
<i>Tecoma stans</i>	1	
<i>Terminalia ivorensis</i>	1	
<i>Terminalia chebula</i>	2	
<i>Terminalia catappa</i>	1	
<i>Teucrium scorodonia</i>	2	
<i>Teucrium scordium</i>	2	
<i>Teucrium montanum</i>	2	
<i>Teucrium chamaedrys</i>	2	
<i>Teucrium botrys</i>	2	
<i>Theobroma cacao</i>	3	
<i>Thespesia populnea</i>	1	
<i>Thevetia peruviana</i>	1	
<i>Thymus vulgaris</i>	1	67600.0
<i>Thymus serpyllum</i>	1	24800.0
<i>Tilia sp.</i>	3	
<i>Tribulus terrestris</i>	1	
<i>Tridax procumbens</i>	1	
<i>Trifolium pratense</i>	4	

Plants with Activity Synergy	Chemical Count	Total PPM
Trigonella foenum-graecum	2	
Triticum aestivum	2	16.0
Tropaeolum majus	1	
Tussilago farfara	2	5600.0
Uncaria catechu	1	
Urginea maritima	1	
Urtica dioica	3	
Vaccinium vitis-idaea	4	
Vaccinium myrtillus	5	
Vaccinium macrocarpon	3	500.0
Vaccinium corymbosum	4	
Valeriana officinalis	2	
Verbena officinalis	1	40000.0
Viburnum opulus	2	
Vicia faba	1	
Vigna radiata	2	
Viola tricolor	1	
Viola odorata	1	
Viscum album	1	
Vitis vinifera	5	
Withania somnifera	1	
Zea mays	3	2.8
Zingiber officinale	2	